

Creel and Lake Information

Lake Information

Lake Name: Oahe Lower
Lake Code: LLO-Lake-2952-000
Surface Area: 62,717.24 Hectares
County: Stanley
Start Date: 5/10/2019
End Date: 7/31/2019
Months Included: May, June, July

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Oahe Lower during 2018 - 2019. Any Species (ANY), Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE).

Year	Month	# of Interviews	Percent of Anglers Targeting						
			ANY	CCF	FCS	NOP	SMB	SAB	WAE
2019	May	43	14.0	2.3	7.0	27.9	16.3	2.3	27.9
	June	157	14.0	1.3	2.5	1.3	3.8	0.0	77.1
	July	137	4.4	0.7	1.5	0.0	0.0	0.0	93.4
	Overall	337	10.1	1.2	2.7	4.2	3.9	0.3	77.4

Table 2. Monthly and overall number of interviews, angler hours, angler days, mean trip length, mean party size, percent of parties interviewed that were South Dakota residents, percent of angling activity from a boat or shack and percent of angling activity that occurred on weekends and holidays at Oahe Lower (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2019	May	43	16,709 (2,262)	3,563	4.69 (1.13)	2.16 (0.48)	74.42	67	47
	June	157	50,233 (3,646)	10,067	4.99	2.57 (0.26)	87.26	98	62
	July	137	51,172 (4,333)	9,154	5.59	2.53	72.99	100	55
	Overall	337	118,113 (6,098)	23,205	5.09 (0.38)	2.42 (0.18)	79.82	95	57

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2019 daylight period on Oahe Lower (80% confidence interval).

Lake	Month			Total
	May	June	July	
Oahe Lower (Stanley)	16,709 (2,262)	50,233 (3,646)	51,172 (4,333)	118,113 (6,098)

Table 4. Estimated number of fish harvested, by species and month, for the summer season 2019 daylight period on Oahe Lower (80% confidence interval).

Species	Month			Total
	May	June	July	
Channel Catfish	250 (183)	1,558 (460)	847 (649)	2,655 (816)
Fall Chinook Salmon	259 (430)	228 (325)	0	487 (539)
Northern Pike	100 (152)	221 (131)	66 (53)	387 (208)
Smallmouth Bass	713 (564)	2,032 (773)	969 (629)	3,715 (1,145)
Smallmouth Buffalo	50 (72)	0	0	50 (72)
Walleye	1,137 (597)	19,861 (3,715)	15,906 (3,764)	36,904 (5,322)
Total	2,508 (1,998)	23,902 (5,404)	17,787 (5,095)	44,196 (8,102)

Table 5a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Oahe Lower (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and other species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		C/h	C/h	C/h	C/h	C/h	C/h
2019	May	0.02 (<0.01)	0.04 (0.06)	0.02	0.09 (0.03)	<0.01 (<0.01)	0.08 (0.05)
	June	0.08 (0.03)	0.01 (<0.01)	0.02 (<0.01)	0.13 (0.04)	0.00	0.53 (0.16)
	July	0.10 (0.03)	0.00	0.01 (<0.01)	0.12 (0.04)	<0.01 (<0.01)	0.60 (0.20)
	Overall	0.08 (0.02)	0.01 (<0.01)	0.01 (<0.01)	0.12 (0.02)	<0.01 (<0.01)	0.49 (0.10)

Table 5b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Oahe Lower (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and other species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		H/h	H/h	H/h	H/h	H/h	H/h
2019	May	0.01 (<0.01)	0.02 (0.03)	0.01	0.04 (0.03)	<0.01 (<0.01)	0.07 (0.04)
	June	0.03 (0.01)	<0.01 (<0.01)	<0.01 (<0.01)	0.04 (0.01)	0.00	0.40 (0.12)
	July	0.02 (0.01)	0.00	<0.01 (<0.01)	0.02 (0.01)	0.00	0.31 (0.11)
	Overall	0.02 (<0.01)	<0.01 (<0.01)	<0.01	0.03 (<0.01)	<0.01 (<0.01)	0.31 (0.07)

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Oahe Lower. (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and Other Species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		C/h	C/h	C/h	C/h	C/h	C/h
2019	May	5.00	0.09 (0.25)	0.03 (0.02)	0.18 (0.19)	0.29	0.20 (0.88)
	June	1.97 (5.59)	0.25	0.48 (3.28)	1.37 (1.79)	0.00	0.63 (0.62)
	July	8.11	0.00	0.00	0.00	0.00	0.62 (0.41)
	Overall	4.94 (1.36)	0.13 (0.13)	0.18 (1.09)	0.87 (1.04)	0.29	0.48 (0.38)

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Oahe Lower. (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and Other Species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		H/h	H/h	H/h	H/h	H/h	H/h
2019	May	5.00	0.04 (0.11)	0.02 (0.02)	0.04 (0.14)	0.29	0.16 (0.24)
	June	1.38 (3.17)	0.19	0.00	0.37 (0.93)	0.00	0.47 (0.69)
	July	8.11	0.00	0.00	0.00	0.00	0.32 (0.36)
	Overall	4.80 (0.77)	0.08 (0.06)	0.02 (0.01)	0.23 (0.54)	0.29	0.32 (0.27)

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Oahe Lower (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and other species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		C	C	C	C	C	C
2019	May	299 (150)	682 (976)	329 (297)	1,462 (459)	50 (72)	1,336 (688)
	June	4,098 (1,398)	304 (434)	843 (480)	6,567 (2,033)	0	26,397 (5,124)
	July	5,055 (1,076)	0	351 (86)	6,137 (1,508)	140 (178)	30,469 (6,118)
	Overall	9,453 (1,770)	986 (1,068)	1,523 (571)	14,166 (2,573)	190 (193)	58,202 (8,010)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Oahe Lower (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) and other species (Other).

Year	Month	CCF	FCS	NOP	SMB	SAB	WAE
		H	H	H	H	H	H
2019	May	250 (183)	259 (430)	100 (152)	713 (564)	50 (72)	1,137 (597)
	June	1,558 (460)	228 (325)	221 (131)	2,032 (773)	0	19,861 (3,715)
	July	847 (649)	0	66 (53)	969 (629)	0	15,906 (3,764)
	Overall	2,655 (816)	487 (539)	387 (208)	3,715 (1,145)	50 (72)	36,904 (5,322)

Table 8. Estimated number and rate (number per hour) of Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE) caught and harvested by anglers during the summer and winter fisheries on Oahe Lower, (80% confidence interval).

Channel Catfish

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	9,453 (1,770)	2,655 (816)	0.08 (0.02)	0.02 (<0.01)

Fall Chinook Salmon

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	986 (1,068)	487 (539)	0.01 (<0.01)	<0.01 (<0.01)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	1,523 (571)	387 (208)	0.01 (<0.01)	<0.01

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	14,166 (2,573)	3,715 (1,145)	0.12 (0.02)	0.03 (<0.01)

Smallmouth Buffalo

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	190 (193)	50 (72)	<0.01 (<0.01)	<0.01 (<0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	58,202 (8,010)	36,904 (5,322)	0.49 (0.10)	0.31 (0.07)

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Oahe Lower. Abbreviations for species are as follows: Channel Catfish (CCF), Fall Chinook Salmon (FCS), Northern Pike (NOP), Smallmouth Bass (SMB), Smallmouth Buffalo (SAB), Walleye (WAE).

Summer 2019						
Length Group (mm)	CCF (N=0)	FCS (N=0)	NOP (N=0)	SMB (N=2)	SAB (N=0)	WAE (N=903)
30						1
40						1
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						
170						
180						
190						
200						
210						
220						
230						
240						
250						
260						
270						1
280						
290						
300						1
310						6
320						5
330						9
340						28
350						38
360						61
370				1		62
380						103
390						110
400						70
410						84
420						62
430						64
440						42
450						43
460						33
470						29
480				1		27
490						7
500						5
510						3
520						4
530						2
540						1
550						
560						1

Figure 1a. Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Oahe Lower.

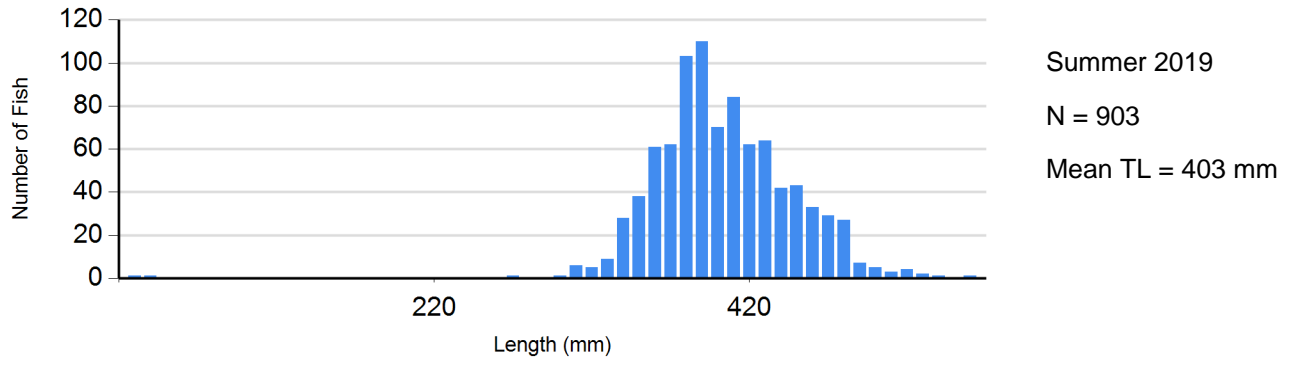


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Oahe Lower, South Dakota between May 2019 and July 2019.

Summer 2019

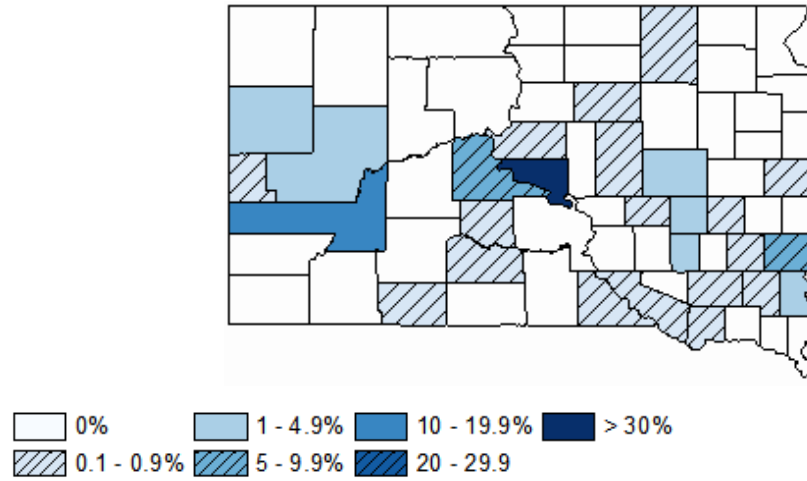


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	CCF (n=337)	FCS (n=337)	NOP (n=337)	SMB (n=337)	SAB (n=337)	WAE (n=337)
0.00	302	333	320	290	336	129
0.17	0	0	0	1	0	2
0.20	0	0	1	0	0	1
0.25	4	0	1	4	0	2
0.33	6	0	3	4	0	3
0.40	0	0	0	1	0	0
0.50	7	1	7	8	0	23
0.60	1	0	0	1	0	0
0.67	0	0	0	5	0	4
0.75	1	0	0	1	0	1
0.80	1	0	0	0	0	2
1.00	4	1	2	10	1	22
1.17	0	0	0	1	0	0
1.20	1	0	0	0	0	0
1.25	0	0	0	0	0	2
1.33	2	0	1	1	0	3
1.40	0	0	1	1	0	0
1.50	2	0	0	3	0	13
1.67	0	0	0	0	0	1
1.71	0	0	0	0	0	1
1.75	0	0	0	0	0	1
2.00	2	1	1	3	0	17
2.20	0	0	0	0	0	1
2.25	0	0	0	0	0	1
2.33	0	0	0	0	0	4
2.40	0	0	0	0	0	1
2.50	0	0	0	1	0	11
2.67	0	0	0	0	0	3
3.00	0	1	0	0	0	16
3.20	0	0	0	0	0	1
3.33	0	0	0	1	0	1
3.50	0	0	0	0	0	7
3.67	0	0	0	0	0	2
4.00	1	0	0	0	0	55
4.33	1	0	0	0	0	0
4.50	0	0	0	1	0	1
5.00	0	0	0	0	0	1
5.33	0	0	0	0	0	1
6.00	0	0	0	0	0	1
8.00	0	0	0	0	0	2
10.00	2	0	0	0	0	0

18.00

0

0

0

0

0

1

Table 11 The number (N) and percent of total interviews in supplemental-response categories by question asked during interviews at Oahe Lower.

Question: Considering all factors, how satisfied are you with your fishing trip today?

Response	Summer 2019 (n = 3)
Moderately Satisfied	33%
Slightly Satisfied	67%

Question: Why did you decide to come here to fish today?

Response	Summer 2019 (n = 16)
Close to home	13%
Favorite place to fish	25%
No	25%
Other	25%
Yes	13%

Question: Have you been interviewed on this waterbody this year prior to today?

Response	Summer 2019 (n = 328)
No	79%
Yes	21%